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**Edelmann et al.**

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(54) **METHODS FOR IDENTIFYING  
COMPOUNDS WHICH MODULATE THE  
ACTIVITY OF MSH5**

(75) Inventors: Winfried Edelmann, Bronx, NY (US);  
Richard D. Kolodner, San Diego, CA  
(US); Jeffrey W. Pollard, New York,  
NY (US); Raju S. Kucherlapati,  
Darien, CT (US)

(73) Assignees: Dana-Farber Cancer Institute, Inc.,  
Boston, MA (US); Albert Einstein  
College of Medicine of Yeshiva  
University, Bronx, NY (US)

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patent is extended or adjusted under 35  
U.S.C. 154(b) by 0 days.

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(22) Filed: Sep. 11, 2000

**Related U.S. Application Data**

(62) Division of application No. 09/469,636, filed on Dec.  
22, 1999, now Pat. No. 6,444,873.

(60) Provisional application No. 60/113,487, filed on Dec.  
22, 1998.

(51) Int. Cl.  
C12Q 1/00 (2006.01)  
C12Q 1/68 (2006.01)  
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435/40.5

(58) Field of Classification Search 435/4,  
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See application file for complete search history.

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Primary Examiner—Ruth A Davis  
(74) Attorney, Agent, or Firm—Drinker Biddle & Reath LLP

(57) **ABSTRACT**

An animal, e.g., transgenic mouse, in which the MSH5 gene  
is misexpressed. The animal is useful for screening treat-  
ments for a number of conditions. Methods for identifying  
contraceptive agents are also described.

4 Claims, 8 Drawing Sheets



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